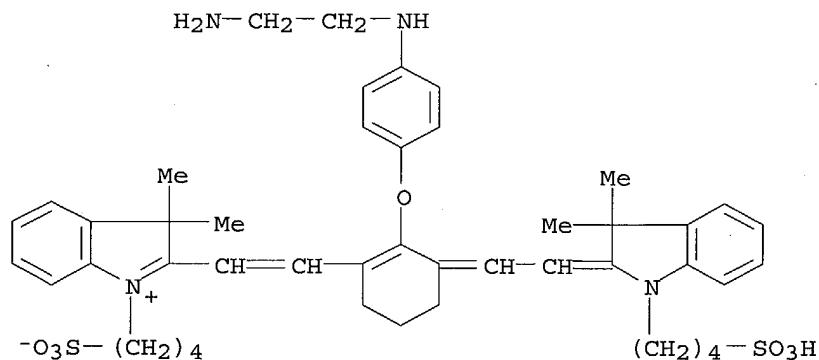


Structure attributes must be viewed using STN Express query preparation.

FILE 'CAPLUS' ENTERED AT 06:31:00 ON 21 AUG 2003  
L7 71 S L3

RN 184957-40-2 CAPLUS

CN 3H-Indolium, 2-[2-[2-[4-[(2-aminoethyl)amino]phenoxy]-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfoethyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfoethyl)-, inner salt (9CI) (CA INDEX NAME)

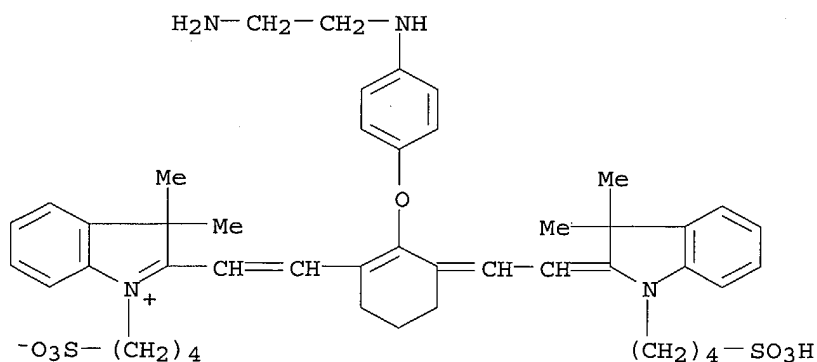


IT 184957-40-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(platinum-based linkers prepn. for labeling bioorg. mols. for detection and diagnosis)

RN 184957-40-2 CAPLUS

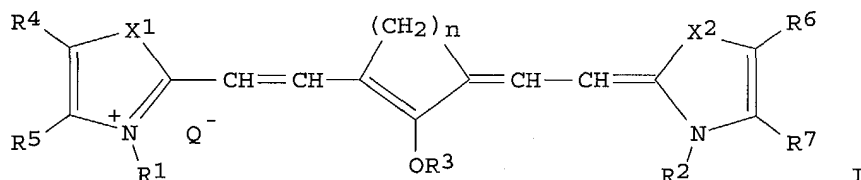
CN 3H-Indolium, 2-[2-[2-[4-[(2-aminoethyl)amino]phenoxy]-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfoethyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfoethyl)-, inner salt (9CI) (CA INDEX NAME)



L7 ANSWER 55 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1996:366130 CAPLUS  
 DOCUMENT NUMBER: 125:99952  
 TITLE: Photographic element with ether dye for near-infrared antihalation  
 INVENTOR(S): Fabricius, Dietrich M.; Schelhorn, Thomas  
 PATENT ASSIGNEE(S): E. I. Du Pont De Nemours and Company, USA  
 SOURCE: U.S., 14 pp., Cont.-in-part of U.S. Ser. No. 195,068, abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5519145	A	19960521	US 1994-225388	19940408
JP 07287346	A2	19951031	JP 1995-82178	19950407
US 5536626	A	19960716	US 1995-445455	19950531
PRIORITY APPLN. INFO.:			US 1994-195068	19940214
			US 1994-225388	19940408

OTHER SOURCE(S): MARPAT 125:99952  
 GI



AB A novel dye and photog. element comprising the dye are disclosed. The dye is esp. useful as an antihalation dye in a photog. element. A particularly preferred embodiment is provided in a photog. element comprising an absorbing amt. of the dye having the general formula I wherein X1, X2 independently represents CR8R9, S, Se, NR10, CH=CH, or O; R1 and R2 independently represent alkyl of 1 to 10 carbons or substituted alkyl of 1 to 10 carbons; R3 represents a ring chosen from the set consisting of arom. rings of 6 or 10 carbons, substituted arom. rings of 6 or 10 carbons, heterocyclic rings and substituted heterocyclic rings; R4, R5, R6, and R7 independently represent hydrogen, alkyl of 1-10 carbons, substituted alkyl of 1-10 carbons; R8, R9 independently represent alkyl of 1-10 carbons, substituted alkyl of 1-10 carbons, arom. ring of 6 or 10 carbons, substituted arom. ring of 6 or 10 carbons; R10 represents alkyl of 1-10 carbons, substituted alkyl of 1-10 carbons, arom. ring of 6 or 10 carbons, substituted arom. ring of 6 or 10 carbons; Q represents a counterion; and n is an integer of 2 and 3.

IT 173536-21-5P 173536-23-7P 173536-25-9P  
 173536-27-1P 173536-29-3P 173536-30-6P  
 173536-32-8P 173536-34-0P 173536-35-1P  
 173536-37-3P 173536-40-8P 173536-41-9P  
 173536-43-1P 173536-44-2P 173536-46-4P  
 173536-49-7P 173536-50-0P 179028-69-4P

**179028-73-0P**

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(prepn. and use as near-IR antihalation dye for silver halide photog. films)

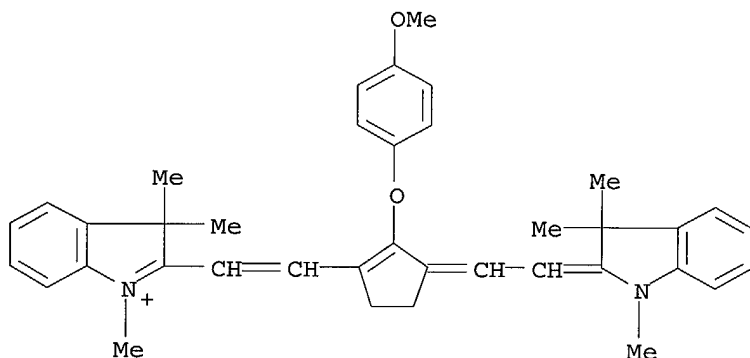
RN 173536-21-5 CAPLUS

CN 3H-Indolium, 2-[2-[3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-2-(4-methoxyphenoxy)-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 173536-20-4

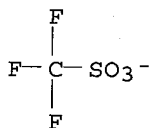
CMF C38 H41 N2 O2



CM 2

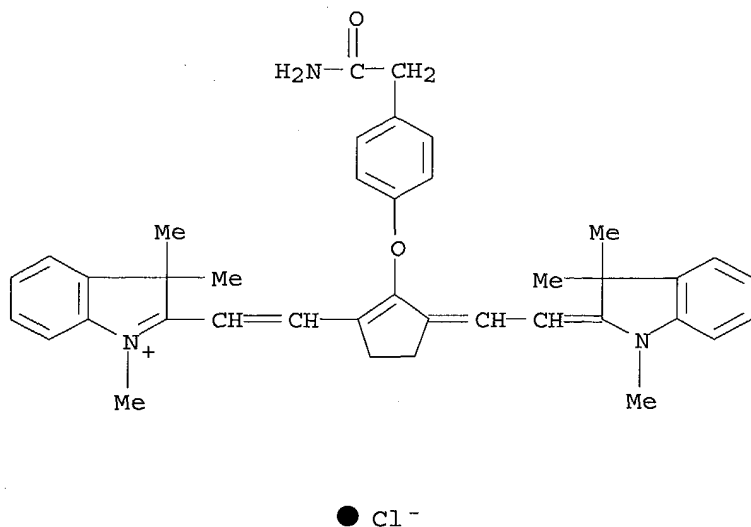
CRN 37181-39-8

CMF C F3 O3 S



RN 173536-23-7 CAPLUS

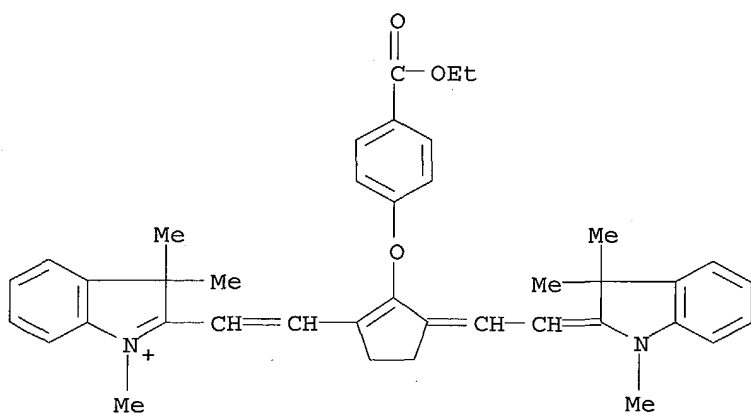
CN 3H-Indolium, 2-[2-[2-[4-(2-amino-2-oxoethyl)phenoxy]-3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 173536-25-9 CAPLUS  
 CN 3H-Indolium, 2-[2-[3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-2-[4-(ethoxycarbonyl)phenoxy]-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

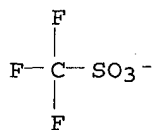
CM 1

CRN 173536-24-8  
 CMF C40 H43 N2 O3



CM 2

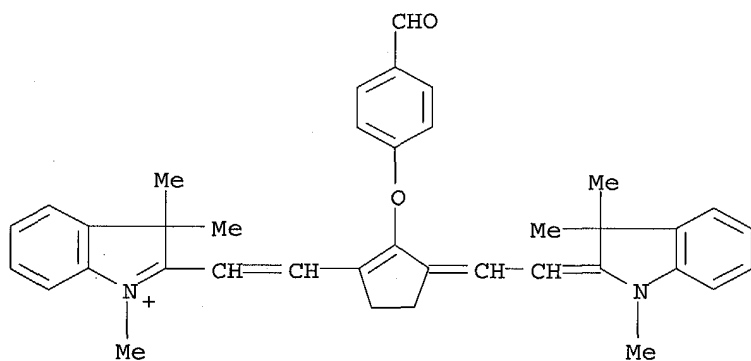
CRN 37181-39-8  
 CMF C F3 O3 S



RN 173536-27-1 CAPLUS  
 CN 3H-Indolium, 2-[2-[3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-2-(4-formylphenoxy)-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

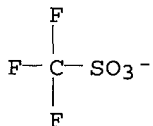
CM 1

CRN 173536-26-0  
 CMF C38 H39 N2 O2



CM 2

CRN 37181-39-8  
 CMF C F3 O3 S



RN 173536-29-3 CAPLUS  
 CN 3H-Indolium, 2-[2-[3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-2-(4-sulfophenoxy)-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

L7 ANSWER 50 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1997:34059 CAPLUS  
 DOCUMENT NUMBER: 126:57117  
 TITLE: Methods for the production of platinum-based linkers between labels and bio-organic molecules, for labeling bio-organic molecules, for detecting biological substances of interest and diagnostic test kits  
 INVENTOR(S): Houthoff, Hendrik Jan; Reedijk, Jan; Jelsma, Tinka; Van Es, Remco Maria; Van Den Berg, Franciscus Michiel; Lempers, Edwin Leo Mario; Bloemink, Marieke Johanna  
 PATENT ASSIGNEE(S): Kreatech Biotechnology B.V., Neth.; Houthoff, Hendrik Jan; Reedijk, Jan; Jelsma, Tinka; Van Es, Remco Maria; Van Den Berg, Franciscus Michiel; Lempers, Edwin Leo Mario; Bloemink, Marieke Johanna  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9635696	A1	19961114	WO 1996-NL198	19960508
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
CA 2218815	AA	19961114	CA 1996-2218815	19960508
AU 9657040	A1	19961129	AU 1996-57040	19960508
AU 724320	B2	20000914		
JP 11505533	T2	19990521	JP 1996-533965	19960508
NZ 307633	A	20000128	NZ 1996-307633	19960508
EP 1019420	A1	20000719	EP 1996-915218	19960508
EP 1019420	B1	20030806		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: EP 1995-201197 A 19950509  
 WO 1996-NL198 W 19960508

OTHER SOURCE(S): CASREACT 126:57117; MARPAT 126:57117

AB The present invention provides improved methods of producing platinum compds., which are very suitable for producing labeled substances, which can be used to detect specific mols. of interest. The platinum coordination compds. have two reactive groups of which one is replaced by a label and the other one can be replaced by a substance to be labeled. Prodn. of labeled substances is very much improved by selection of the right starting materials and producing the right intermediates. The efficiency of labeling is very much improved, thereby enabling the prodn. of labeling kits which are also a part of the present invention. The methods can be used for the detection of, e.g., various microorganisms and gene translocations/abnormalities.

IT **184957-40-2DP**, complexes with platinum ethylenediamine  
 RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (platinum-based linkers prepn. for labeling bioorg. mols. for detection and diagnosis)

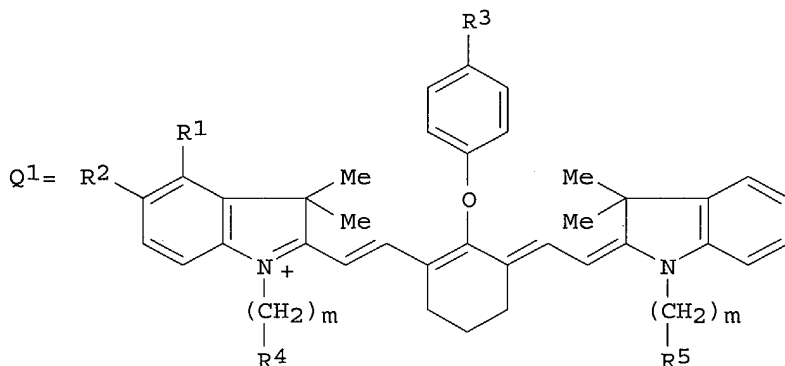
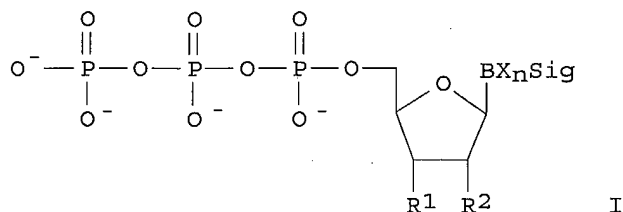
L7 ANSWER 59 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1995:794888 CAPLUS  
 DOCUMENT NUMBER: 123:286528  
 TITLE: Preparation of infrared dye-marked nucleotides for  
 marking, detection, and sequencing of nucleic acids.  
 INVENTOR(S): Muehlegger, Klaus; Hoeltke, Hans-Joachim; Birkner,  
 Christian; Eltz, Herbert Von  
 PATENT ASSIGNEE(S): Boehringer Mannheim GmbH, Germany  
 SOURCE: Ger. Offen., 7 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4326466	A1	19950209	DE 1993-4326466	19930806
CA 2145405	AA	19950216	CA 1994-2145405	19940730
CA 2145405	C	20020917		
WO 9504747	A1	19950216	WO 1994-EP2541	19940730
W: AU, CA, FI, JP, KR, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9474611	A1	19950228	AU 1994-74611	19940730
AU 671928	B2	19960912		
EP 663922	A1	19950726	EP 1994-924305	19940730
EP 663922	B1	19991103		
JP 07507576	T2	19950824	JP 1994-506207	19940730
JP 2966524	B2	19991025		
AT 186304	E	19991115	AT 1994-924305	19940730
ES 2140551	T3	20000301	ES 1994-924305	19940730
US 6573374	B1	20030603	US 1995-411761	19950328
FI 9501630	A	19950405	FI 1995-1630	19950405
NO 9501319	A	19950405	NO 1995-1319	19950405
AU 9659424	A1	19960919	AU 1996-59424	19960710
AU 682290	B2	19970925		
JP 11286498	A2	19991019	JP 1999-12975	19990121
JP 3266865	B2	20020318		

PRIORITY APPLN. INFO.: DE 1993-4326466 A 19930806  
 JP 1994-506207 A3 19940730  
 WO 1994-EP2541 W 19940730

OTHER SOURCE(S): MARPAT 123:286528  
 GI





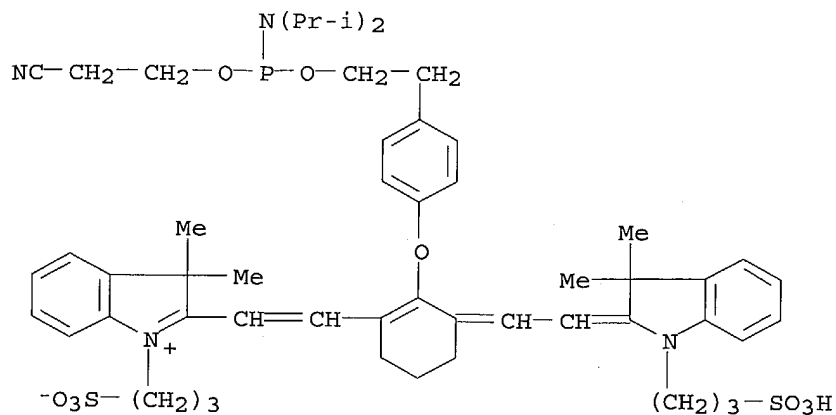
AB Title compds. (I; B = residue of adenine, guanine, hypoxanthine, 7-desazaadenine, 7-desazaguanine, 7-desazahypoxanthine, 7-desaza-8-azaadenine, 7-desaza-8-azaguanine, 7-desaza-8-azahypoxanthine, thymine, cytosine, uracil; X = linking group; n = 4-20; Sig = fluorescent mol. having an excitation wavelength of 650-800 nM, e.g., Q1; R1, R2 = H; R1R2 = atoms to form a Ph ring; R3 = H, NHCS bond to B; R4, R5 = alkylsulfonyl with m = 3-5, or R4 = NHCS with m = 3-8), were prepd. Thus, 8-aminopentylamino-2'-desoxyadenosine-5'-triphosphate and anhydro-10,12-propylene-3,3,3',3'-tetramethyl-1,1'-bis(3-sulfobutyl)-11-(4-isothiocyano)phenoxyindotricarbocyanine Na salt were kept in DMF with protection from light to give anhydro-10,12-propylene-3,3,3',3'-tetramethyl-1,1'-bis(3-sulfobutyl)indotricarbocyanin-11-(4-amino)-phenoxythiono-[8-(5-aminopentylamino)-2'-desoxyadenosine-5'-triphosphate] (IRD-dATP). This may be used as a substrate for T7 DNA polymerase (no details).

IT 167847-81-6P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of IR dye-marked nucleotides for marking, detection, and sequencing of nucleic acids)

RN 167847-81-6 CAPLUS

CN 3H-Indolium, 2-[2-[2-[4-[2-[[[bis(1-methylethyl)amino] (2-cyanoethoxy)phosphino]oxy]ethyl]phenoxy]-3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt (9CI) (CA INDEX NAME)



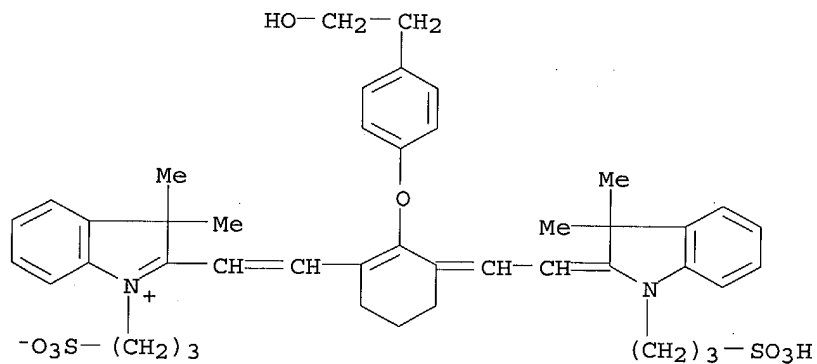
IT 167847-85-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of IR dye-marked nucleotides for marking, detection, and sequencing of nucleic acids)

RN 167847-85-0 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-2-[4-(2-hydroxyethyl)phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)



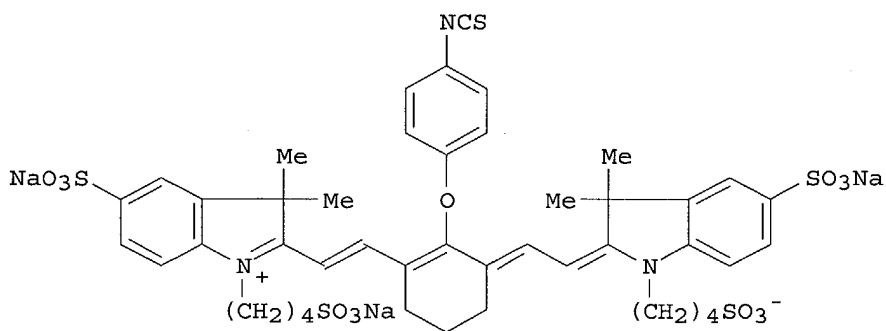
L7 ANSWER 1 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:545724 CAPLUS  
 DOCUMENT NUMBER: 139:102420  
 TITLE: Cyanine dye for labeling of biomolecules  
 INVENTOR(S): Narayanan, Narasimhachari  
 PATENT ASSIGNEE(S): Li-Cor, Inc., USA  
 SOURCE: U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 143,153,  
 abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 12  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6593148	B1	20030715	US 2000-520770	20000307
US 5571388	A	19961105	US 1994-204627	19940301
US 6086737	A	20000711	US 1995-500691	19950711

PRIORITY APPLN. INFO.:

US 1994-204627	A2	19940301
US 1995-500691	A3	19950711
US 1998-143153	B2	19980820
US 1984-594676	A3	19840329
US 1987-78279	B2	19870727
US 1990-570503	A2	19900821
US 1990-632605	B1	19901224
US 1991-763230	A3	19910920
US 1991-799712	B1	19911126
US 1992-860140	A2	19920330
US 1992-950734	A3	19920924
US 1993-18806	A3	19930217
US 1994-275232	B2	19940714
US 1994-288461	A2	19940810

GI



AB The IR-fluorescent cyanine dye I for labeling of biomols. was disclosed.  
 A synthesis starting with the Cl (in place of NCS) analog of I was described.

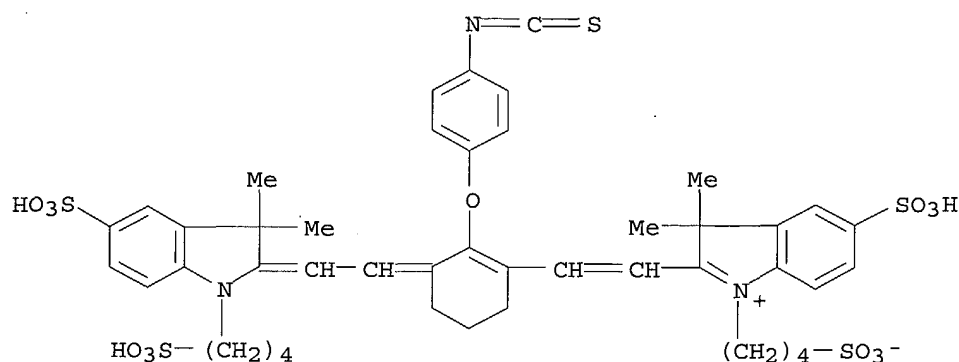
IT 166547-11-1

RL: TEM (Technical or engineered material use); USES (Uses)

(cyanine dye for labeling of biomols.)

RN 166547-11-1 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-(4-isothiocyanatophenoxy)-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



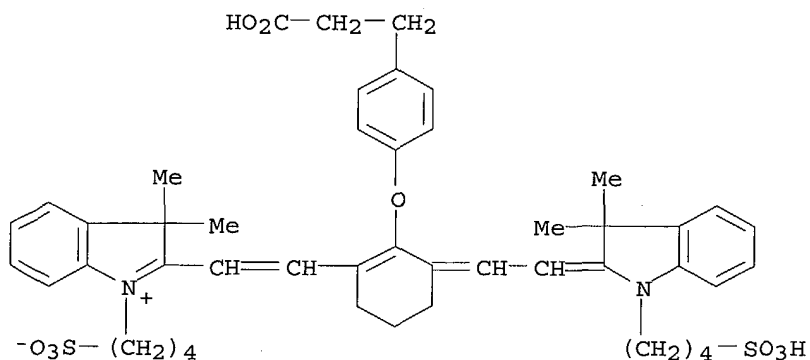
● 3 Na

IT 560095-28-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(prepn. of cyanine dye for labeling of biomols.)

RN 560095-28-5 CAPLUS

CN 3H-Indolium, 2-[2-[2-[4-(2-carboxyethyl)phenoxy]-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)

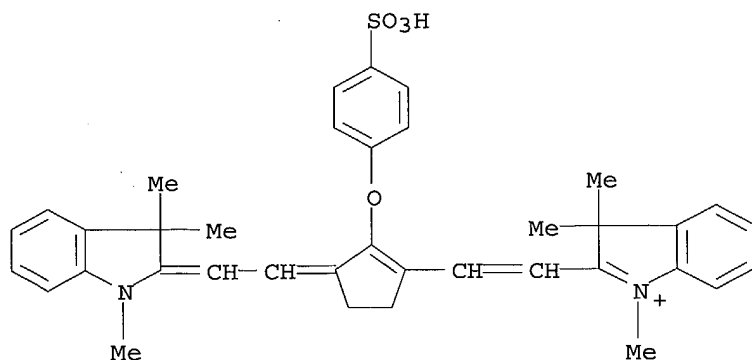


Na

CM 1

CRN 173536-28-2

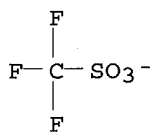
CMF C37 H39 N2 O4 S



CM 2

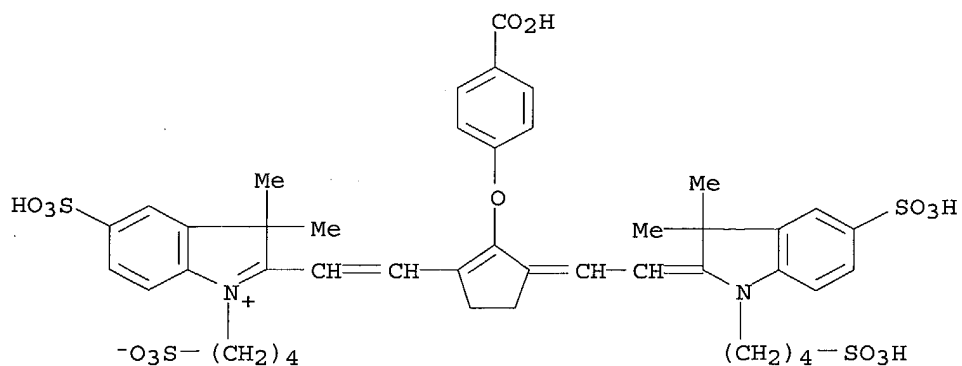
CRN 37181-39-8

CMF C F3 O3 S



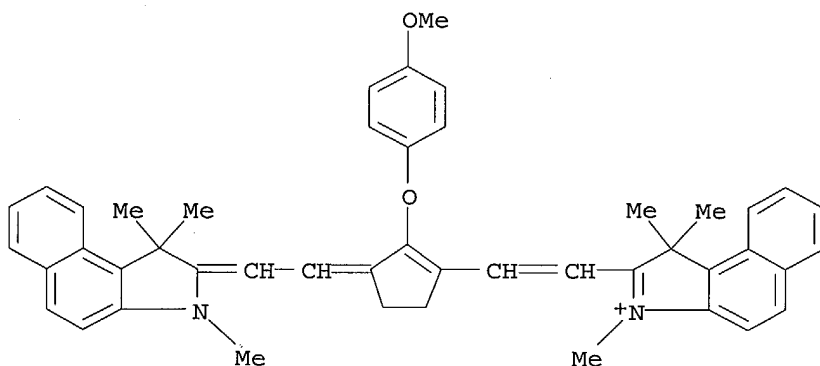
RN 173536-30-6 CAPLUS

CN 3H-Indolium, 2-[2-[2-(4-carboxyphenoxy)-3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na

RN 173536-32-8 CAPLUS  
 CN 1H-Benz[e]indolium, 2-[2-[3-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)ethylidene]-2-(4-methoxyphenoxy)-1-cyclopenten-1-yl]ethenyl]-1,1,3-trimethyl-, chloride (9CI) (CA INDEX NAME)

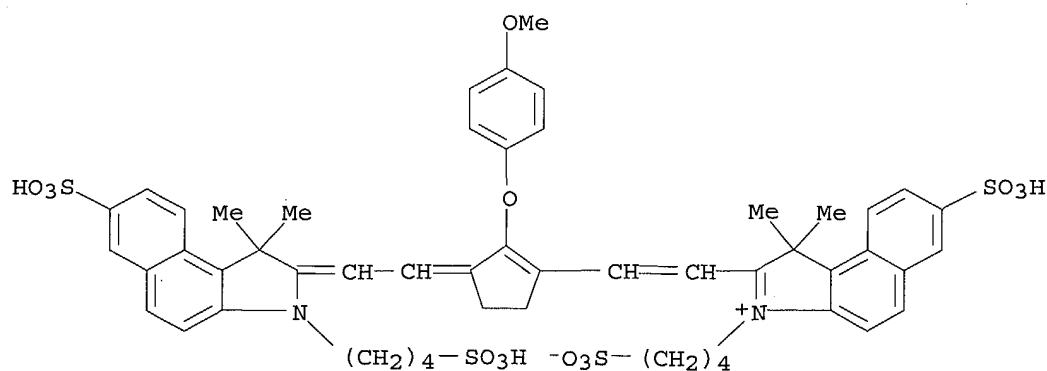


● Cl<sup>-</sup>

RN 173536-34-0 CAPLUS  
 CN 1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-(4-methoxyphenoxy)-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-, inner salt, sodium salt, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

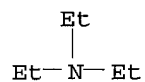
CRN 173536-33-9  
 CMF C52 H56 N2 O14 S4



CM    2

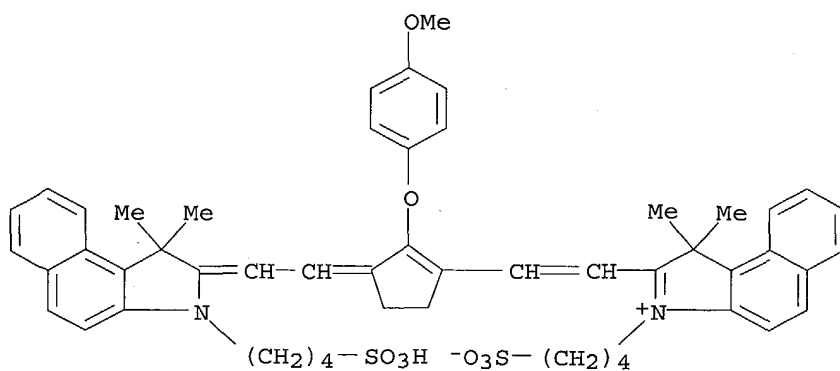
CRN   121-44-8

CMF   C6 H15 N



RN    173536-35-1   CAPLUS

CN    1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-(4-methoxyphenoxy)-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-3-(4-sulfobutyl)-, inner salt, sodium salt (9CI)  
 (CA INDEX NAME)

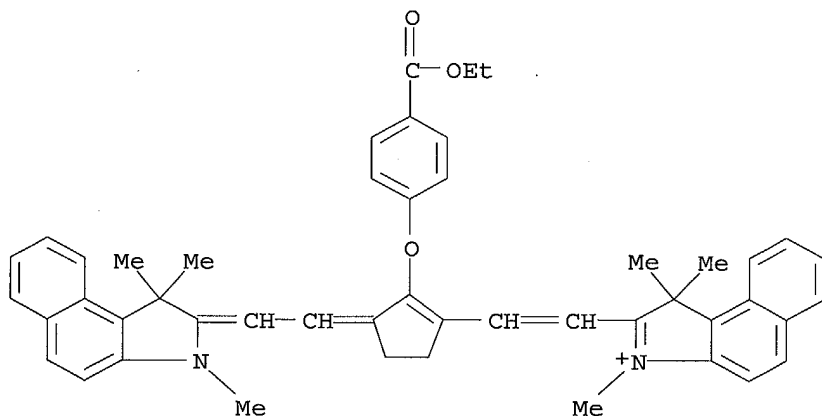


Na

RN 173536-37-3 CAPLUS  
 CN 1H-Benz[e]indolium, 2-[2-[3-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)ethylidene]-2-[4-(ethoxycarbonyl)phenoxy]-1-cyclopenten-1-yl]ethenyl]-1,1,3-trimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

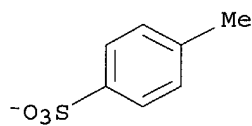
CM 1

CRN 173536-36-2  
 CMF C48 H47 N2 O3



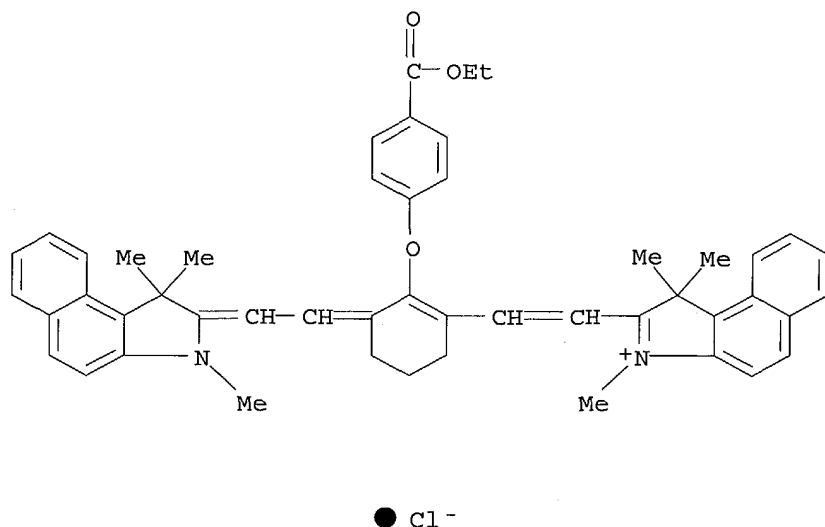
CM 2

CRN 16722-51-3  
 CMF C7 H7 O3 S



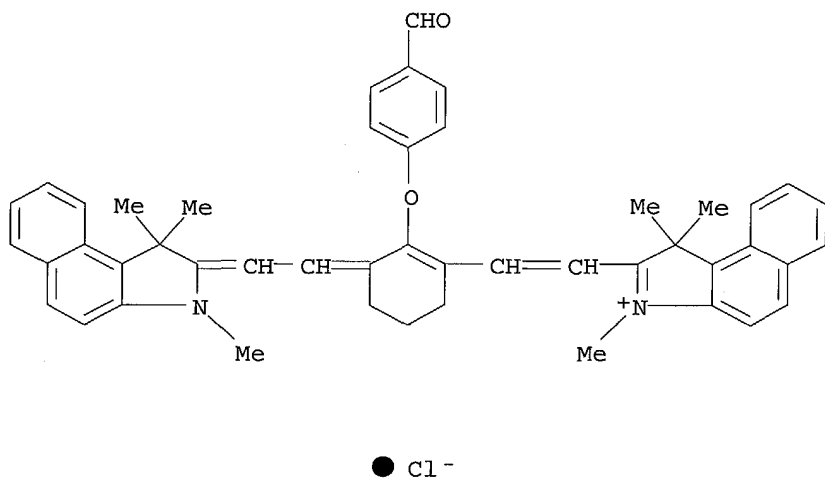
RN 173536-40-8 CAPLUS  
 CN 1H-Benz[e]indolium, 2-[2-[3-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)ethylidene]-2-[4-(ethoxycarbonyl)phenoxy]-1-cyclohexen-1-yl]ethenyl]-1,1,3-trimethyl-, chloride (9CI) (CA INDEX NAME)





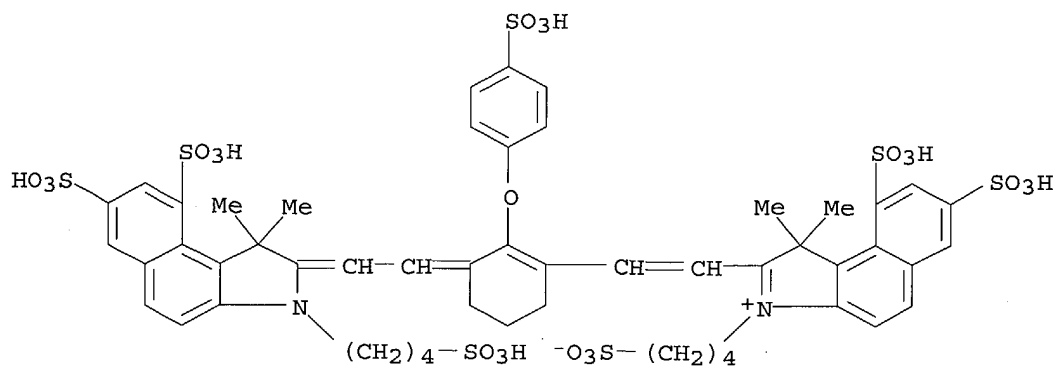
RN 173536-41-9 CAPLUS

CN 1H-Benz[e]indolium, 2-[2-[3-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)ethylidene]-2-(4-formylphenoxy)-1-cyclohexen-1-yl]ethenyl]-1,1,3-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 173536-43-1 CAPLUS

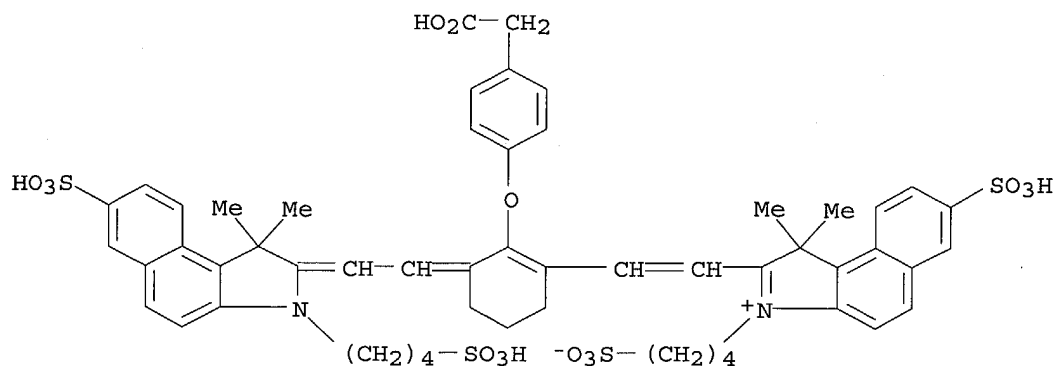
CN 1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-7,9-disulfo-3-(4-sulfoethyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-(4-sulfoethoxy)-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-7,9-disulfo-3-(4-sulfoethyl)-, inner salt, hexasodium salt (9CI) (CA INDEX NAME)



● 6 Na

RN 173536-44-2 CAPLUS

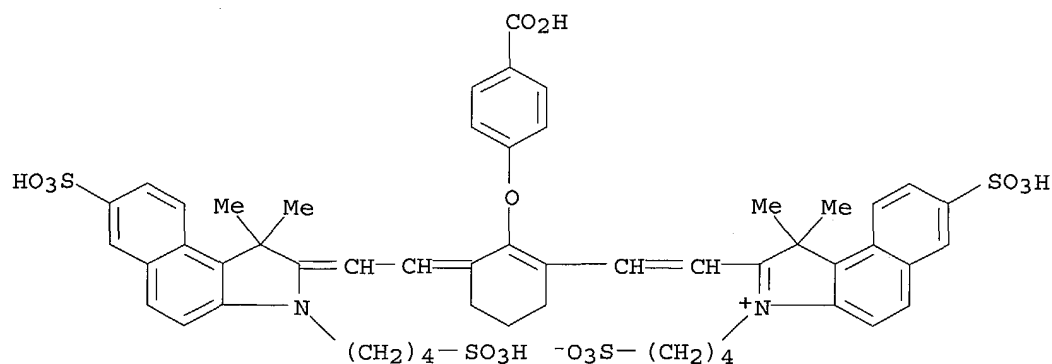
CN 1H-Benz[e]indolium, 2-[2-[2-[4-(carboxymethyl)phenoxy]-3-[[1,3-dihydro-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-, inner salt, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na

RN 173536-46-4 CAPLUS

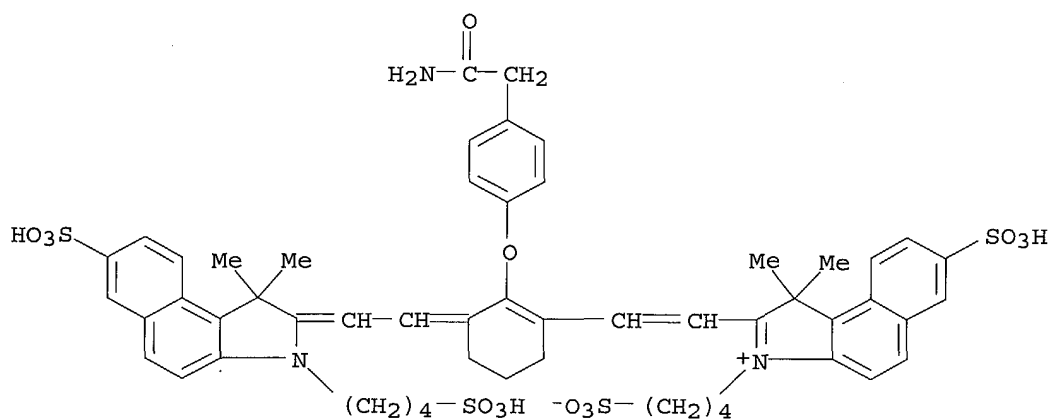
CN 1H-Benz[e]indolium, 2-[2-[2-(4-carboxyphenoxy)-3-[[1,3-dihydro-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-, inner salt, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na

RN 173536-49-7 CAPLUS

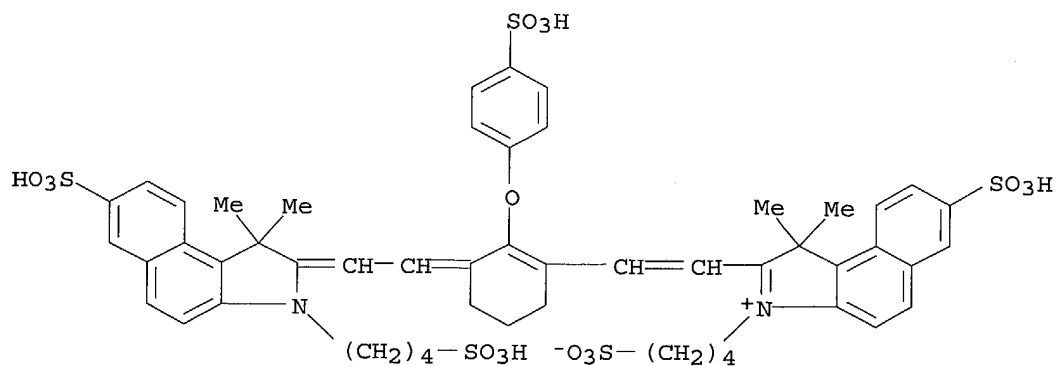
CN 1H-Benz[e]indolium, 2-[2-[2-[4-(2-amino-2-oxoethyl)phenoxy]-3-[[1,3-dihydro-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-, inner salt, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

RN 173536-50-0 CAPLUS

CN 1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-(4-sulfophenoxy)-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-7-sulfo-3-(4-sulfobutyl)-, inner salt, tetrasodium salt (9CI) (CA INDEX NAME)

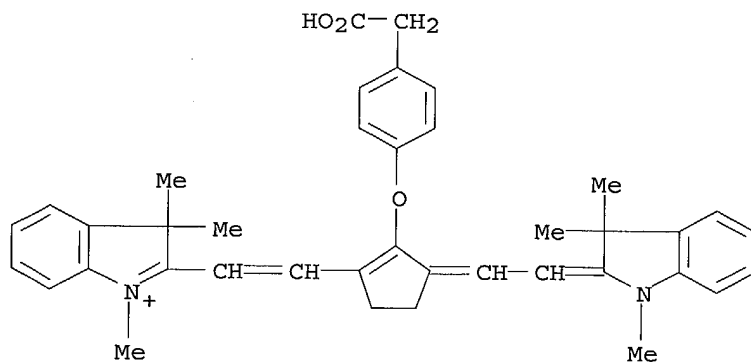


● 4 Na

RN 179028-69-4 CAPLUS  
 CN 3H-Indolium, 2-[2-[2-[4-(carboxymethyl)phenoxy]-3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1,3,3-trimethyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 179028-68-3  
 CMF C39 H41 N2 O3

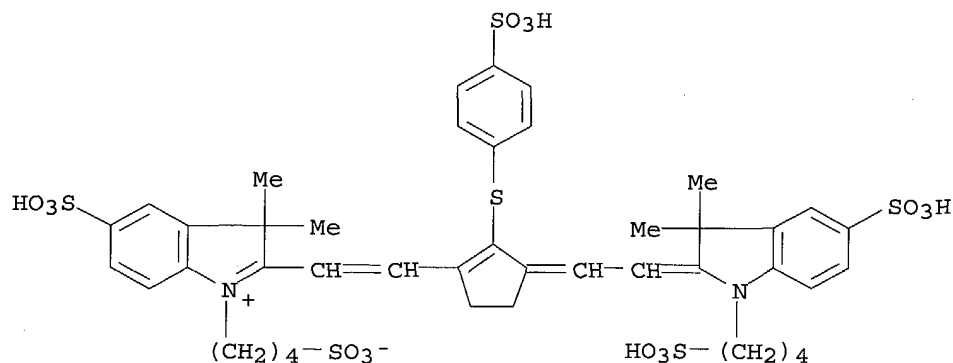


CM 2

CRN 37181-39-8  
 CMF C F3 O3 S



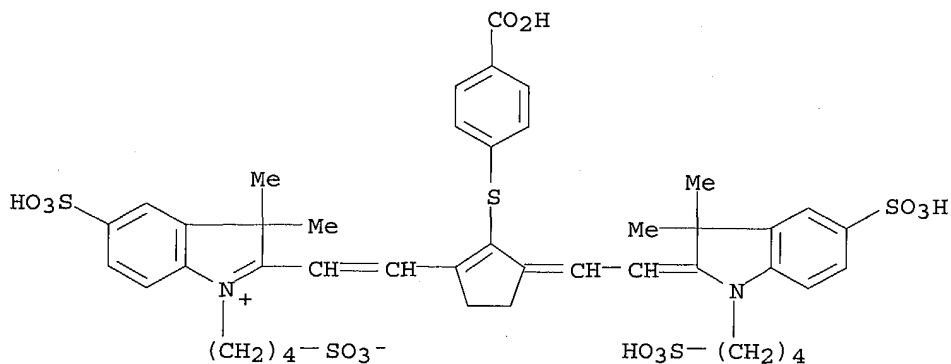
2H-indol-2-ylidene]ethylidene]-2-[(4-sulfophenyl)thio]-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrapotassium salt (9CI) (CA INDEX NAME)



● 4 K

RN 158498-55-6 CAPLUS

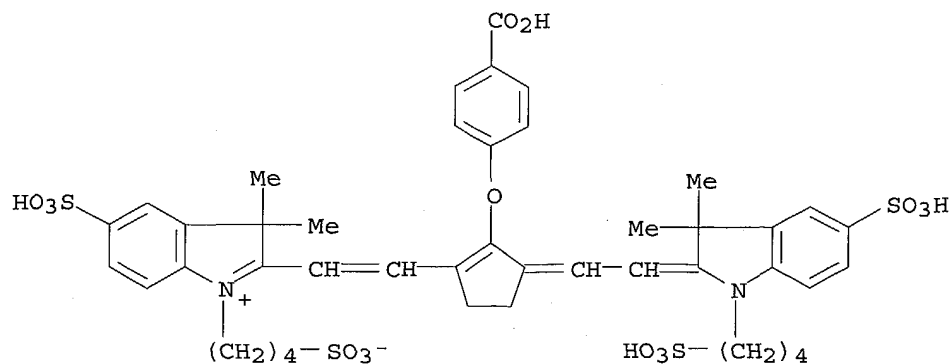
CN 3H-Indolium, 2-[2-[2-[(4-carboxyphenyl)thio]-3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrapotassium salt (9CI) (CA INDEX NAME)



● 4 K

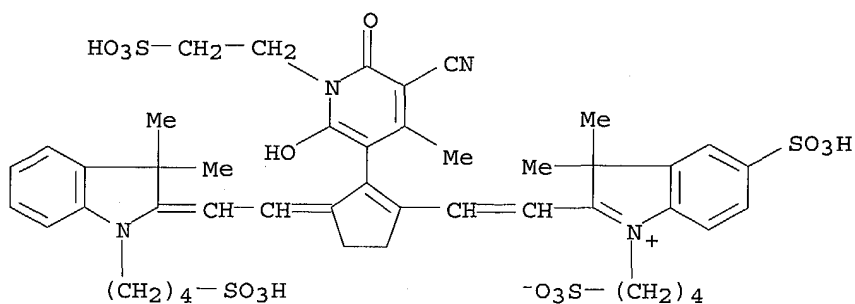
RN 158498-60-3 CAPLUS

CN 3H-Indolium, 2-[2-[2-(4-carboxyphenoxy)-3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrapotassium salt (9CI) (CA INDEX NAME)



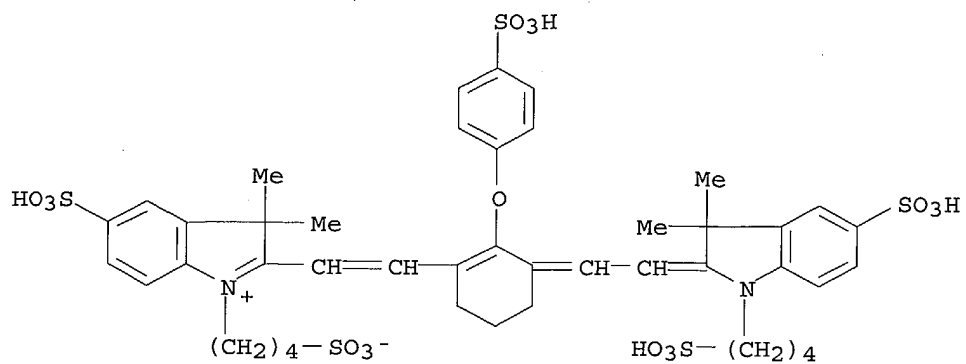
●<sub>4</sub> K

RN	158498-67-0	CAPLUS
CN	3H-Indolium, 2-[2-[2-[5-cyano-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-1-(2-sulfoethyl)-3-pyridinyl]-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrapotassium salt (9CI) (CA INDEX NAME)	



●<sub>4</sub> K

RN	158498-78-3	CAPLUS
CN	3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-(4-sulfophenoxy)-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, tetrapotassium salt (9CI) (CA INDEX NAME)	



● 4 K



L7 ANSWER 36 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1999:405038 CAPLUS  
 DOCUMENT NUMBER: 131:60020  
 TITLE: Novel dye-polysaccharide conjugates and their use as diagnostic agents  
 INVENTOR(S): Bosies, Elmar; Hein, Heinz-Michael; Reiter, Rudolf; Josel, Hans-Peter  
 PATENT ASSIGNEE(S): Roche Diagnostics GmbH, Germany  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931183	A1	19990624	WO 1998-EP8282	19981217
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 934986	A1	19990811	EP 1997-122248	19971217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2315207	AA	19990624	CA 1998-2315207	19981217
EP 1040168	A1	20001004	EP 1998-965849	19981217
EP 1040168	B1	20021106		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
AT 227324	E	20021115	AT 1998-965849	19981217
ES 2187079	T3	20030516	ES 1998-965849	19981217
PRIORITY APPLN. INFO.:			EP 1997-122248	A 19971217
			WO 1998-EP8282	W 19981217

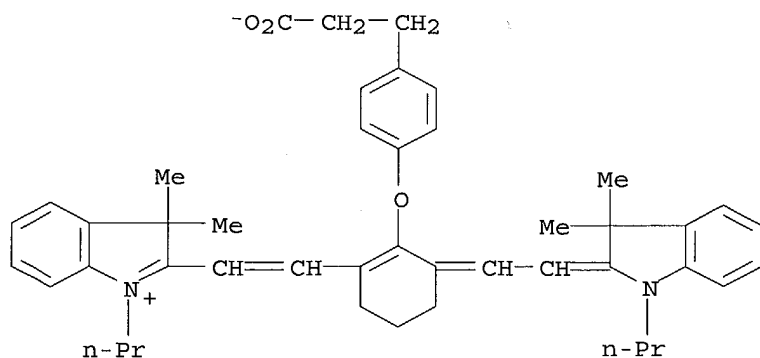
OTHER SOURCE(S): MARPAT 131:60020

AB Dye-polysaccharide or -cyclosaccharide conjugates are prepd. and used for detg. the glomerular filtration rate in humans. Thus, IR 780 iodide was treated with the reaction product of 4-HOC6H4CH2CH2CO2H and NaH to give a carboxy-functional bridged polymethine dye. The succinimidyl ester of the dye reacted with O-(3-aminopropyl)inulin to form a conjugate.

IT **228100-96-7DP**, conjugates with inulin  
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)  
 (dye-polysaccharide conjugates and their use as diagnostic agents)

RN 228100-96-7 CAPLUS

CN 3H-Indolium, 2-[2-[2-[4-(2-carboxyethyl)phenoxy]-3-[(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-propyl-, inner salt (9CI) (CA INDEX NAME)



IT 228101-18-6P

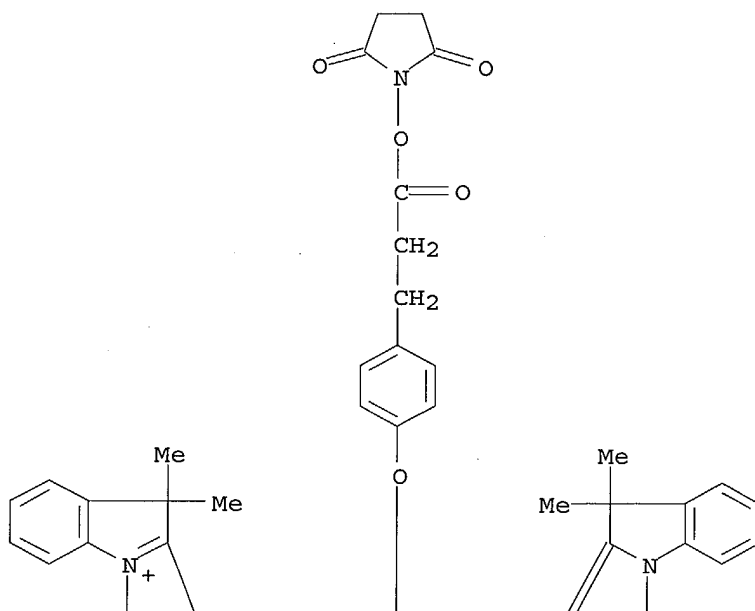
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of dyes and their polysaccharide conjugates for use as diagnostic agents)

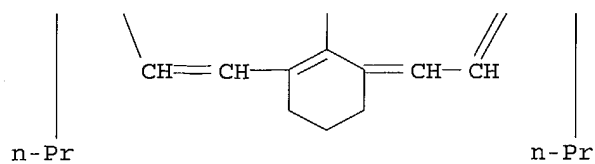
RN 228101-18-6 CAPLUS

CN 3H-Indolium, 2-[2-[3-[(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)ethyldene]-2-[4-[3-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-oxopropyl]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-propyl- (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A

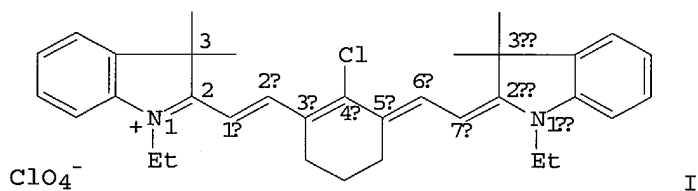


REFERENCE COUNT:

12

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 69 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1992:513516 CAPLUS  
 DOCUMENT NUMBER: 117:113516  
 TITLE: Substitution reactions of a nucleofugal group in  
 heptamethine cyanine dyes. Synthesis of an  
 isothiocyanato derivative for labeling of proteins  
 with a near-infrared chromophore  
 AUTHOR(S): Strekowski, Lucjan; Lipowska, Malgorzata; Patonay,  
 Gabor  
 CORPORATE SOURCE: Dep. Chem., Georgia State Univ., Atlanta, GA,  
 30303-3083, USA  
 SOURCE: Journal of Organic Chemistry (1992), 57(17), 4578-80  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB The reactions of dye I with MeONa, MeNH<sub>2</sub>, PhONa, PhSNa, PhSH, and 4-H<sub>2</sub>NPhSH to yield the corresponding derivs., hydrodechlorination of I in the presence of EtSNa or PhSNa/Ph<sub>2</sub>PH, and synthesis of the SCN-substituted I, a new reagent for ultratrace detection of proteins, are described.

IT **142743-88-2P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, with sodium ethylsulfide or sodium phenylsulfide)

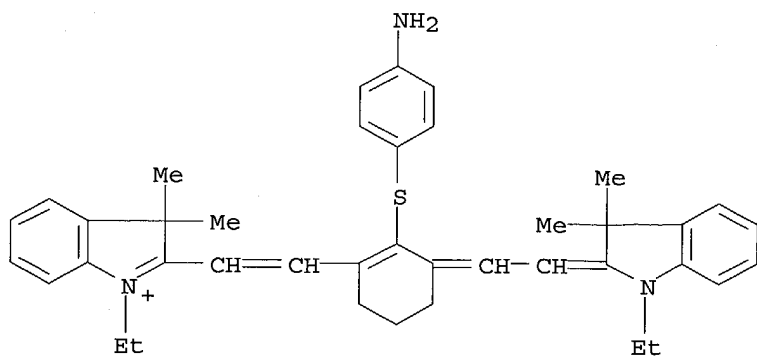
RN 142743-88-2 CAPLUS

CN 3H-Indolium, 1-ethyl-2-[2-[2-[(4-aminophenyl)thio]-3-[(1-ethyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 142743-87-1

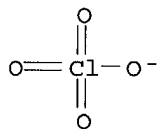
CMF C40 H46 N3 S



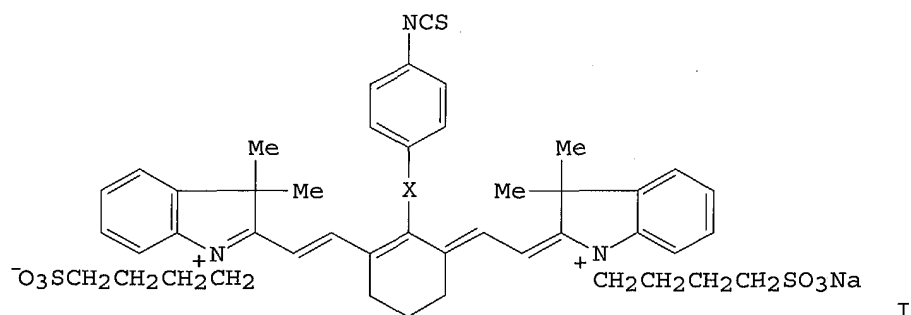
CM 2

CRN 14797-73-0

CMF Cl O4



L7 ANSWER 67 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1994:56667 CAPLUS  
 DOCUMENT NUMBER: 120:56667  
 TITLE: New near-infrared cyanine dyes for labeling of proteins  
 AUTHOR(S): Lipowska, Malgorzata; Patonay, Gabor; Strekowski, Lucjan  
 CORPORATE SOURCE: Dep. Chem., Georgia State Univ., Atlanta, GA, 30303, USA  
 SOURCE: Synthetic Communications (1993), 23(21), 3087-94  
 CODEN: SYNCAV; ISSN: 0039-7911  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

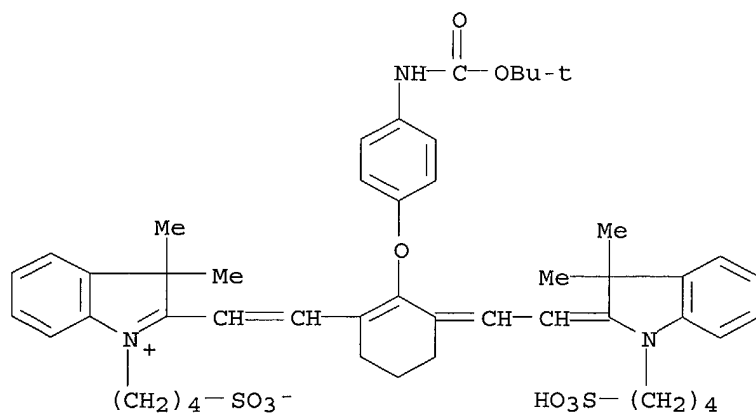


AB Isothiocyanato-functionalized cyanine dyes I (X = O, S) for labeling of proteins at amino groups are synthesized. The dyes and their adducts with amines show strong absorbance and fluorescence in the near-IR region of 750-850 nm.

IT **152111-86-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and deprotection of)

RN 152111-86-9 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-[4-[[[(1,1-dimethylethoxy)carbonyl]amino]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)

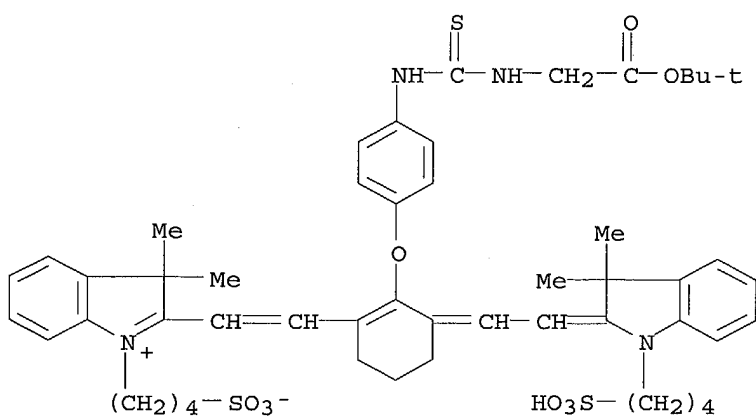


IT 152111-89-2P 152111-92-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and near-IR spectra of)

RN 152111-89-2 CAPLUS

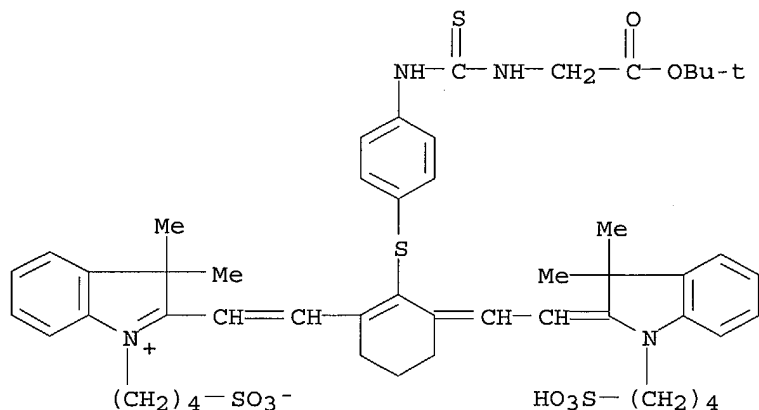
CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylenylidene]-2-[4-[[[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]thioxomethyl]amino]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)



RN 152111-92-7 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-

2-ylidene]ethylidene]-2-[[4-[[[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]thioxomethyl]amino]phenyl]thio]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)



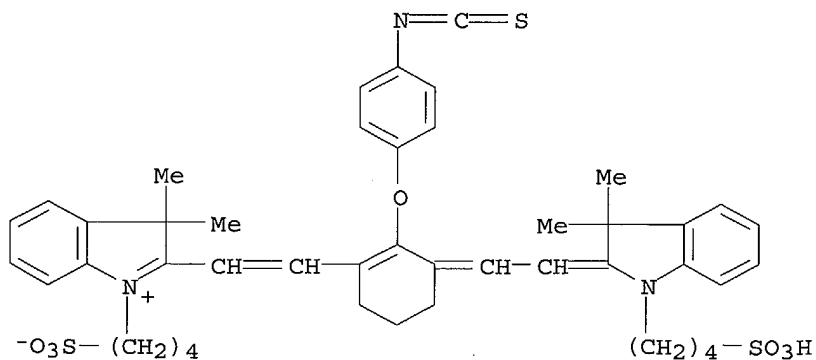
● Na

IT 152111-88-1P 152111-91-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and reaction with glycine ester)

RN 152111-88-1 CAPLUS

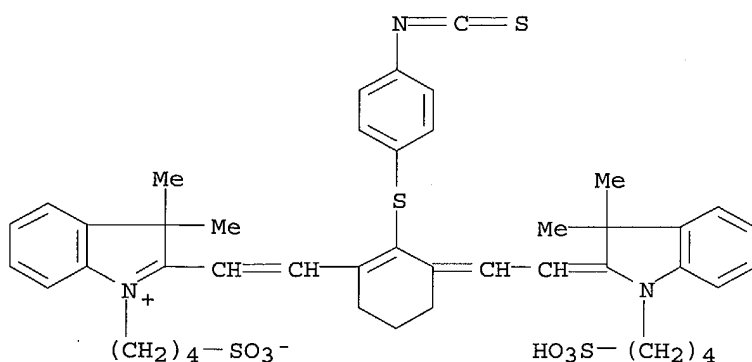
CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-(4-isothiocyanatophenoxy)-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, monosodium salt (9CI) (CA INDEX NAME)



Na

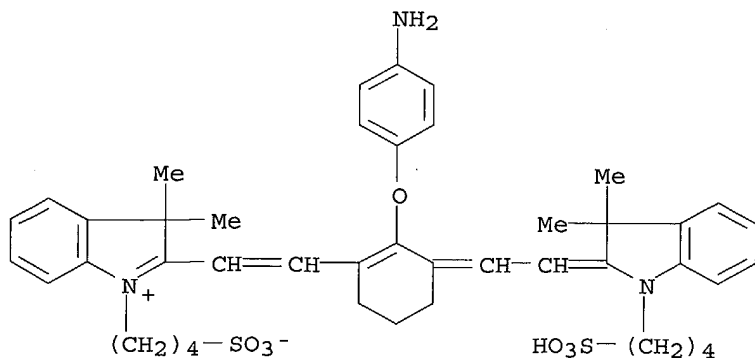


RN 152111-91-6 CAPLUS  
 CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-[(4-isothiocyanatophenyl)thio]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, monosodium salt (9CI) (CA INDEX NAME)



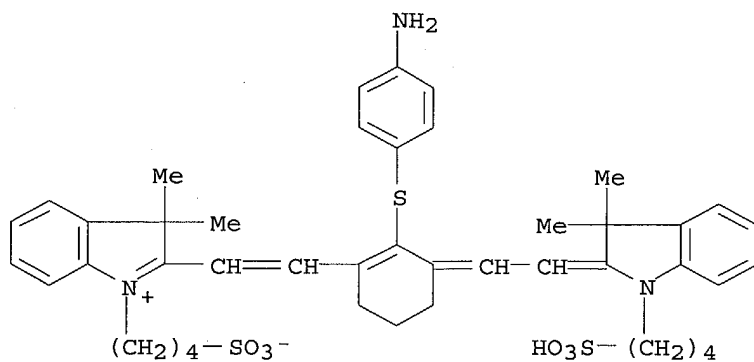
● Na

IT 152111-87-0P 152111-90-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction with thiophosgene)  
 RN 152111-87-0 CAPLUS  
 CN 3H-Indolium, 2-[2-[2-(4-aminophenoxy)-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)



Na

RN 152111-90-5 CAPLUS  
 CN 3H-Indolium, 2-[2-[2-[(4-aminophenyl)thio]-3-[[1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt, monosodium salt (9CI) (CA INDEX NAME)



L7 ANSWER 45 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:575537 CAPLUS

DOCUMENT NUMBER: 127:231448

TITLE: Functionalized Tricarbocyanine Dyes as Near-Infrared  
Fluorescent Probes for Biomolecules

AUTHOR(S): Flanagan, James H., Jr.; Khan, Shaheer H.; Menchen,  
Steve; Soper, Steven A.; Hammer, Robert P.

CORPORATE SOURCE: Department of Chemistry, Louisiana State University,  
Baton Rouge, LA, 70803-1804, USA

SOURCE: Bioconjugate Chemistry (1997), 8(5), 751-756

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:231448

AB The syntheses of 3 novel functionalized tricarbocyanine dyes are described. These dyes contg. isothiocyanate and succinimidyl ester functional groups are reactive toward primary amines and can be used as fluorescent probes for biol. pertinent compds. such as amino acids and functionalized dideoxynucleotides. The absorption and fluorescence maxima occur in the near-IR regin of the spectrum (770-820 nm). The succinimidyl ester proved to be very sensitive to hydrolysis and was generated in situ to label amino acids and alkyl amines. The isothiocyanates were less susceptible to hydrolysis and were conjugated using org. modified [40% (vol./vol.) acetonitrile] buffers to amino acids. A dye with an alkyl isothiocyanate moiety showed conjugation to amino-functionalized dideoxynucleotide triphosphates.

IT 160846-42-4P

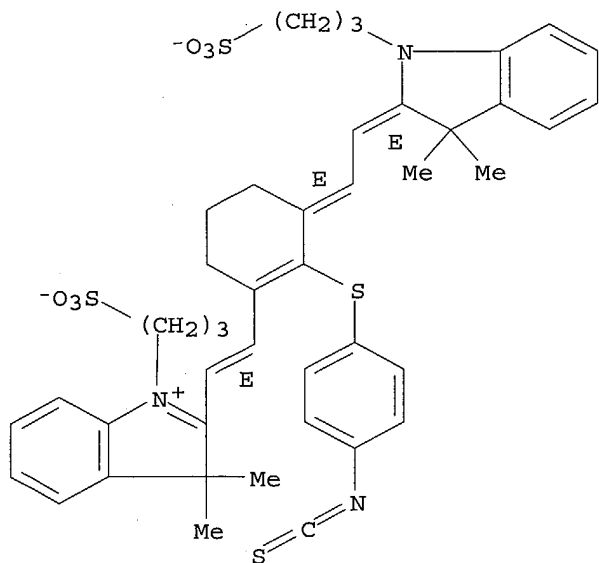
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(functionalized tricarbocyanine dyes as near-IR fluorescent probes for biomols.)

RN 160846-42-4 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-2-[(4-isothiocyanatophenyl)thio]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, bis(inner salt), (E,E,E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 195382-08-2P 195382-09-3P 195382-11-7P

195382-12-8P

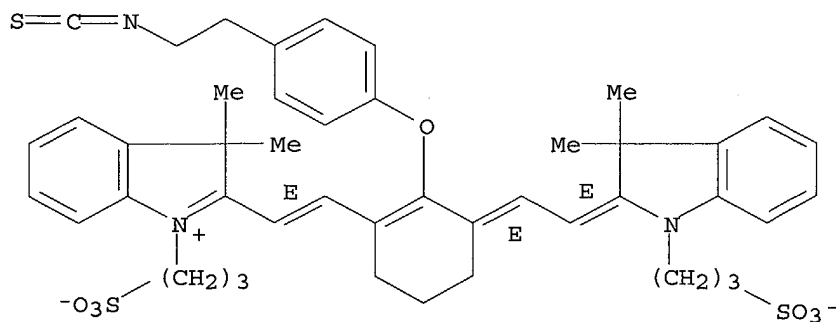
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(functionalized tricarbochrome dyes as near-IR fluorescent probes for biomols.)

RN 195382-08-2 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-2-[4-(2-isothiocyanatoethyl)phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt, ion(1-), (all-E)-(9CI) (CA INDEX NAME)

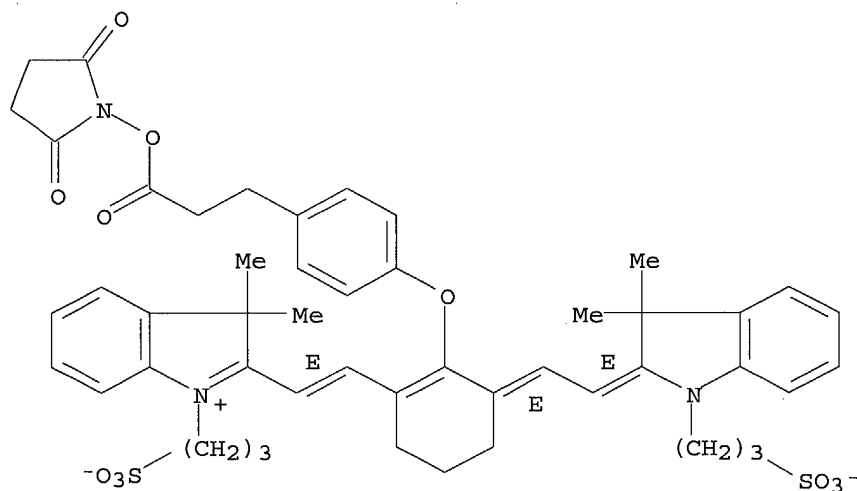
Double bond geometry as shown.



RN 195382-09-3 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-2-[4-[3-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-oxopropyl]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt, ion(1-), (all-E)-(9CI) (CA INDEX NAME)

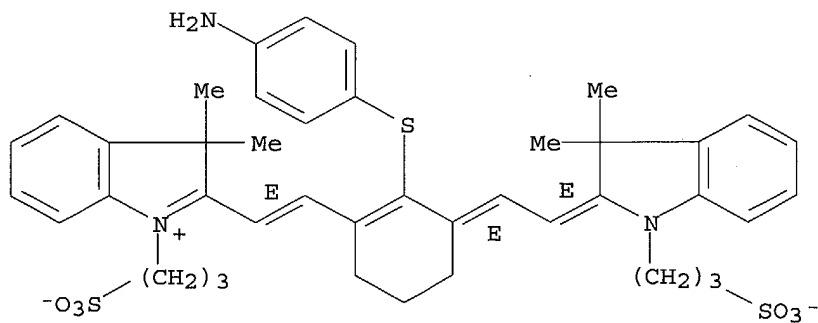
Double bond geometry as shown.



RN 195382-11-7 CAPLUS

CN 3H-Indolium, 2-[2-[2-[(4-aminophenyl)thio]-3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt, ion(1-), (all-E)- (9CI) (CA INDEX NAME)

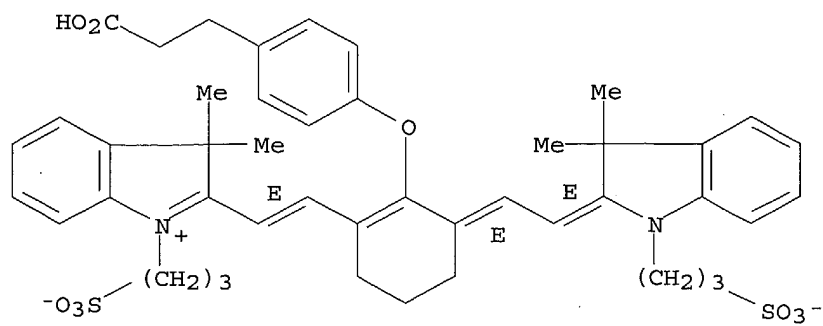
Double bond geometry as shown.



RN 195382-12-8 CAPLUS

CN 3H-Indolium, 2-[2-[2-[4-(2-carboxyethyl)phenoxy]-3-[[1,3-dihydro-3,3-dimethyl-1-(3-sulfopropyl)-2H-indol-2-ylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(3-sulfopropyl)-, inner salt, ion(1-), (all-E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L7 ANSWER 35 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:714823 CAPLUS

DOCUMENT NUMBER: 132:102160

TITLE: Development of near-infrared fluorophoric labels for the determination of fatty acids separated by capillary electrophoresis with diode laser induced fluorescence detection

AUTHOR(S): Gallaher, David L. Jr.; Johnson, Mitchell E.

CORPORATE SOURCE: Department of Chemistry and Biochemistry, Duquesne Univ., Pittsburgh, PA, 15230, USA

SOURCE: Analyst (Cambridge, United Kingdom) (1999), 124(11), 1541-1546

CODEN: ANALAO; ISSN: 0003-2654

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

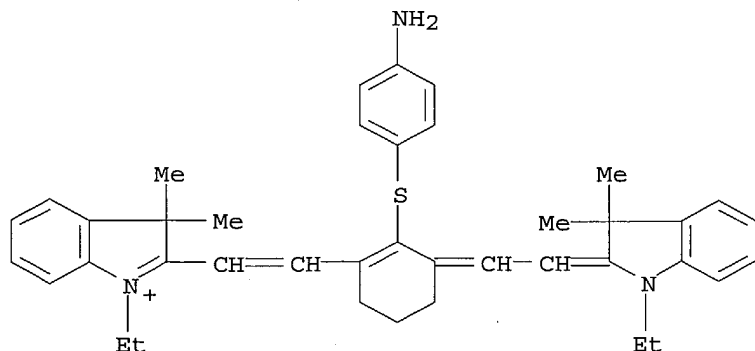
AB Synthesis and characterization of a polymethine cyanine near-IR (NIR) fluorophoric label for the derivatization and detn. of fatty acids sepd. by capillary electrophoresis are described. The label contains an arom. amine functionality, which was used to form a covalent linkage with the analyte. Various linking chemistries are explored, including direct amine-acid condensation using dicyclohexylcarbodiimide (DCC) as a carboxyl activating group. Spectrofluorometry was used to probe the fluorescence efficiency of the label to assist in choosing a sepn. medium for capillary electrophoretic sepn. A nonaq. sepn. medium for capillary zone electrophoresis was used to provide high quantum efficiency for fluorescence and adequate soly. of fatty acid analytes. Diode laser-induced fluorescence detection following electrophoresis of a simple mixt. of labeled fatty acids shows the applicability of this method to biol. relevant carboxylic acid analytes.

IT 142743-87-1P

RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (prepn. and NMR and use as near-IR fluorophoric labels for detn. of fatty acids sepd. by capillary electrophoresis with diode laser induced fluorescence detection)

RN 142743-87-1 CAPLUS

CN 3H-Indolium, 1-ethyl-2-[2-[2-[(4-aminophenyl)thio]-3-[(1-ethyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)ethylydene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

16

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

L7 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:188738 CAPLUS

DOCUMENT NUMBER: 132:302697

TITLE: Nonaqueous capillary electrophoresis of fatty acids derivatized with a near-infrared fluorophore

AUTHOR(S): Gallaher, David L., Jr.; Johnson, Mitchell E.

CORPORATE SOURCE: Department of Chemistry and Biochemistry, Duquesne University, Pittsburgh, PA, 15282-1530, USA

SOURCE: Analytical Chemistry (2000), 72(9), 2080-2086

CODEN: ANCHAM; ISSN: 0003-2700

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

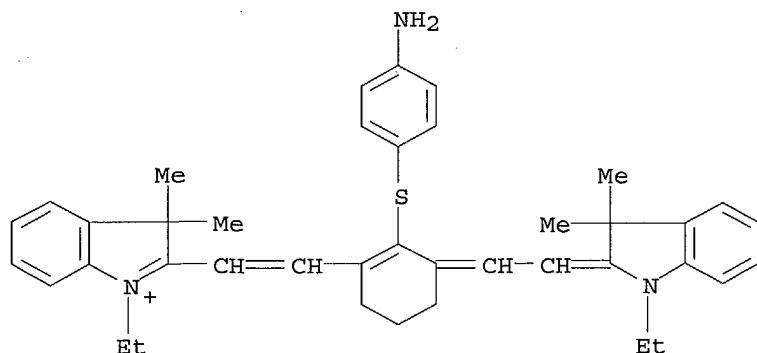
AB Satd. linear fatty acids, derivatized with a near-IR absorbing fluorescent dye, were sepd. in 100% methanol with 12.5 mM tetraethylammonium chloride added as a charge carrier. Sepn. at 380 V/cm was acceptable for acids that differed in length by a single carbon. The labeled linear fatty acids behaved as random coils in the nonaq. sepn. medium, as shown in a fit to a simple theor. expression. However, even in 100% methanol with a trimethylsilylated capillary, significant adsorption to the capillary wall occurred, which reduced resoln. and slowed the sepn. Addn. of water to the methanol medium caused significant differences in sepn. behavior of high mol. wt. acids (>C16). Addn. of a cetyltrimethylammonium bromide surfactant to the sepn. medium dynamically coated the capillary and greatly improved the sepn. The surfactant also interacted with the acyl tail, apparently causing it to collapse. Resoln. in an optimal sepn. medium (20 mM surfactant) ranged from 1.6 to 1.1, depending on chain length, and theor. plate heights were under 4 .mu.m (N > 105). Resoln. was more than adequate to sep. stearic (C18:0) from oleic (C18:1) acid, as well as other unsatd. C18 homologs.

IT 264915-22-2

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (nonaq. capillary electrophoresis of fatty acids derivatized with near-IR fluorophore)

RN 264915-22-2 CAPLUS

CN 3H-Indolium, 2-[2-[2-[(4-aminophenyl)thio]-3-[(1-ethyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1-ethyl-3,3-dimethyl-, iodide (9CI) (CA INDEX NAME)

I<sup>-</sup>



L7 ANSWER 14 OF 71 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2002:368351 CAPLUS  
 DOCUMENT NUMBER: 136:366118  
 TITLE: Non-isotopic detection of osteoblastic activity in vivo using modified bisphosphonates  
 INVENTOR(S): Frangioni, John V.  
 PATENT ASSIGNEE(S): Beth Israel Deaconess Medical Center, USA  
 SOURCE: PCT Int. Appl., 45 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002038190	A2	20020516	WO 2001-US51312	20011029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002036683	A5	20020521	AU 2002-36683	20011029
PRIORITY APPLN. INFO.:			US 2000-244020P	P 20001027
			WO 2001-US51312	W 20011029

OTHER SOURCE(S): MARPAT 136:366118

AB The present invention is directed to a non-isotopic methods for the in vitro and in vivo detection of hydroxyapatite-pos. cells and structures. The NHS ester of the near-IR fluorophore IRDye78 was conjugated with pamidronate disodium to make Pam78. Pam78 was used in near-IR fluorescence imaging of hydroxyapatite in hairless mice. As early as 15 min post-injection, Pam78 uptake in the spine, ribs, paws, and knees could be detected above background, and by three hours, most bony structures were visible.

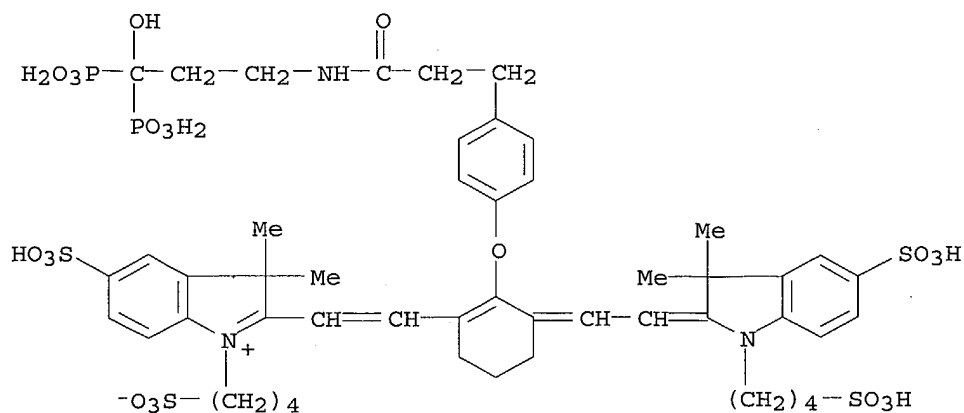
IT **424821-77-2P**

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Pam 78; nonisotopic detection of osteoblastic activity in vivo using modified bisphosphonates)

RN 424821-77-2 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-[4-[3-[(3-hydroxy-3,3-diphosphonopropyl)amino]-3-oxopropyl]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, pentasodium salt (9CI)  
 (CA INDEX NAME)



● 5 Na

IT 398142-13-7

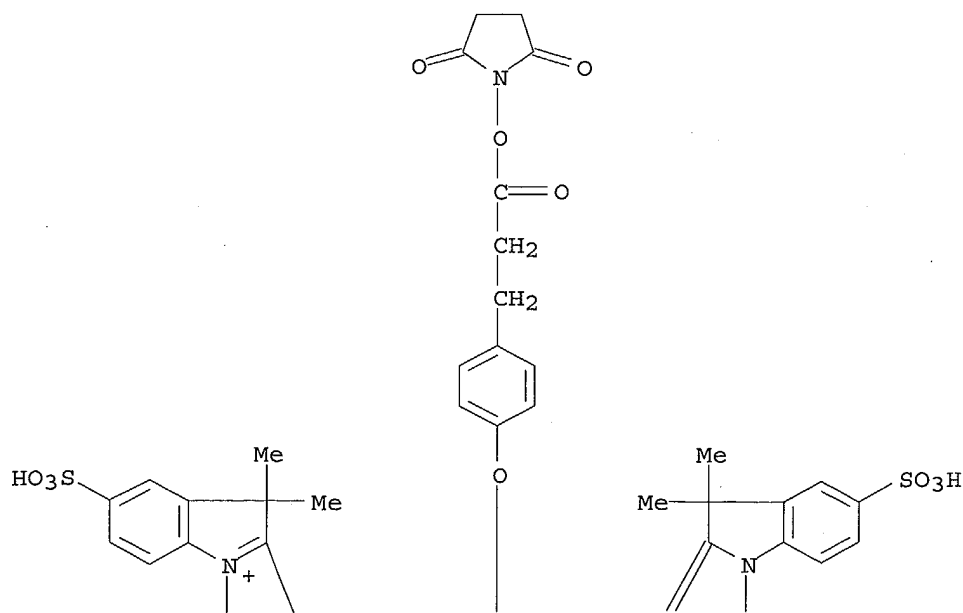
RL: RCT (Reactant); RACT (Reactant or reagent)

(nonisotopic detection of osteoblastic activity in vivo using modified bisphosphonates)

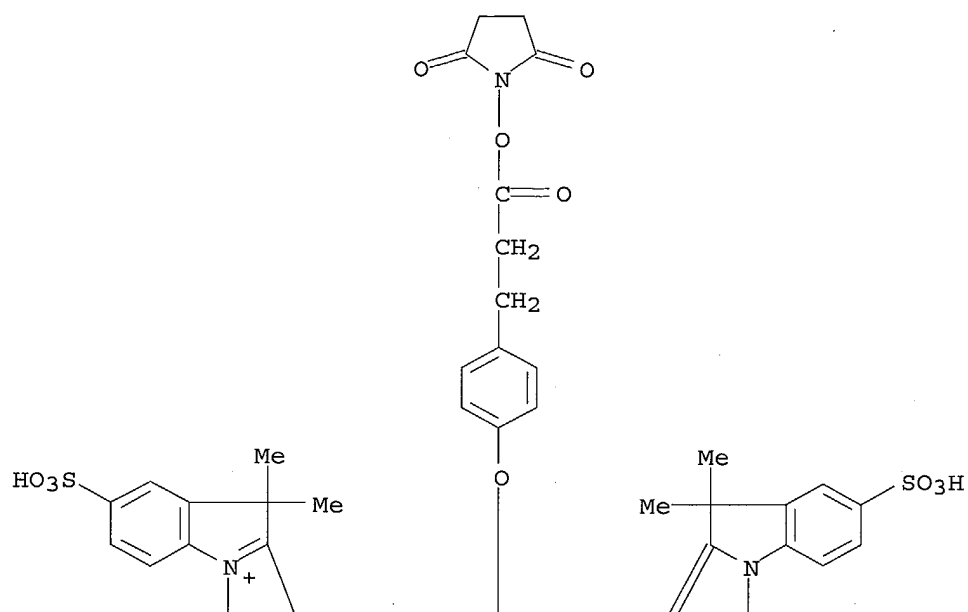
RN 398142-13-7 CAPLUS

CN 3H-Indolium, 2-[2-[3-[[1,3-dihydro-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-[4-[3-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-oxopropyl]phenoxy]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-5-sulfo-1-(4-sulfobutyl)-, inner salt, trisodium salt (9CI) (CA INDEX NAME)

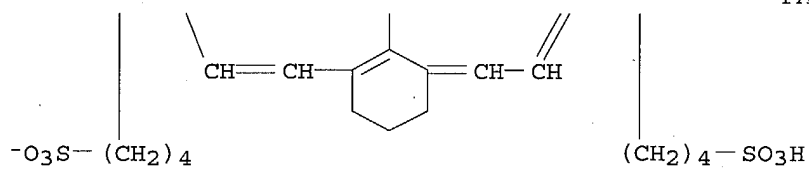
PAGE 1-A



PAGE 1-A



PAGE 2-A



● 3 Na